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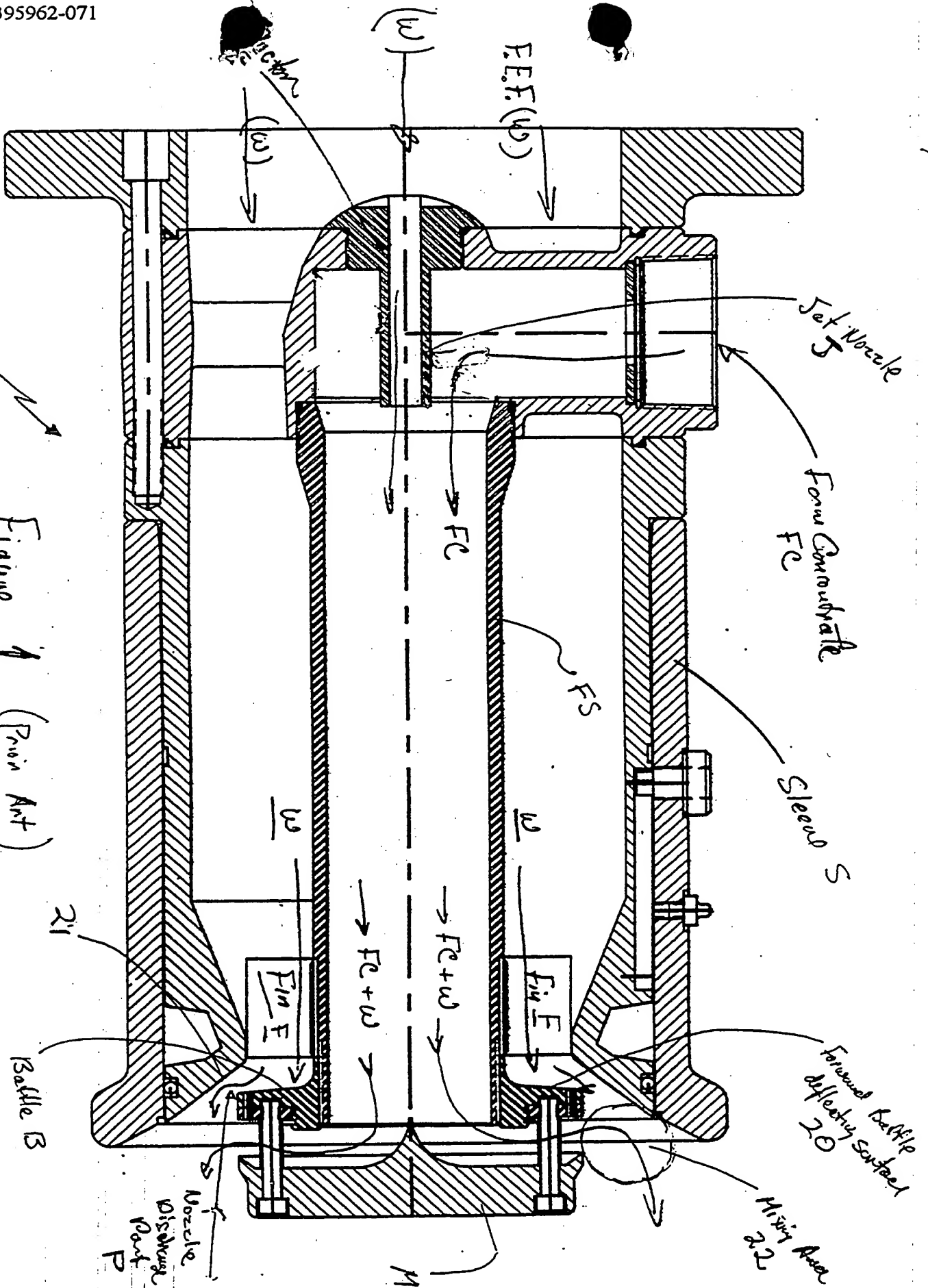


Figure 1 (Prior Art)

Self Educting, Not Self Adjusting

FIG. 1 is a cross-sectional view of the device of FIG. 1, showing the internal components and flow paths.

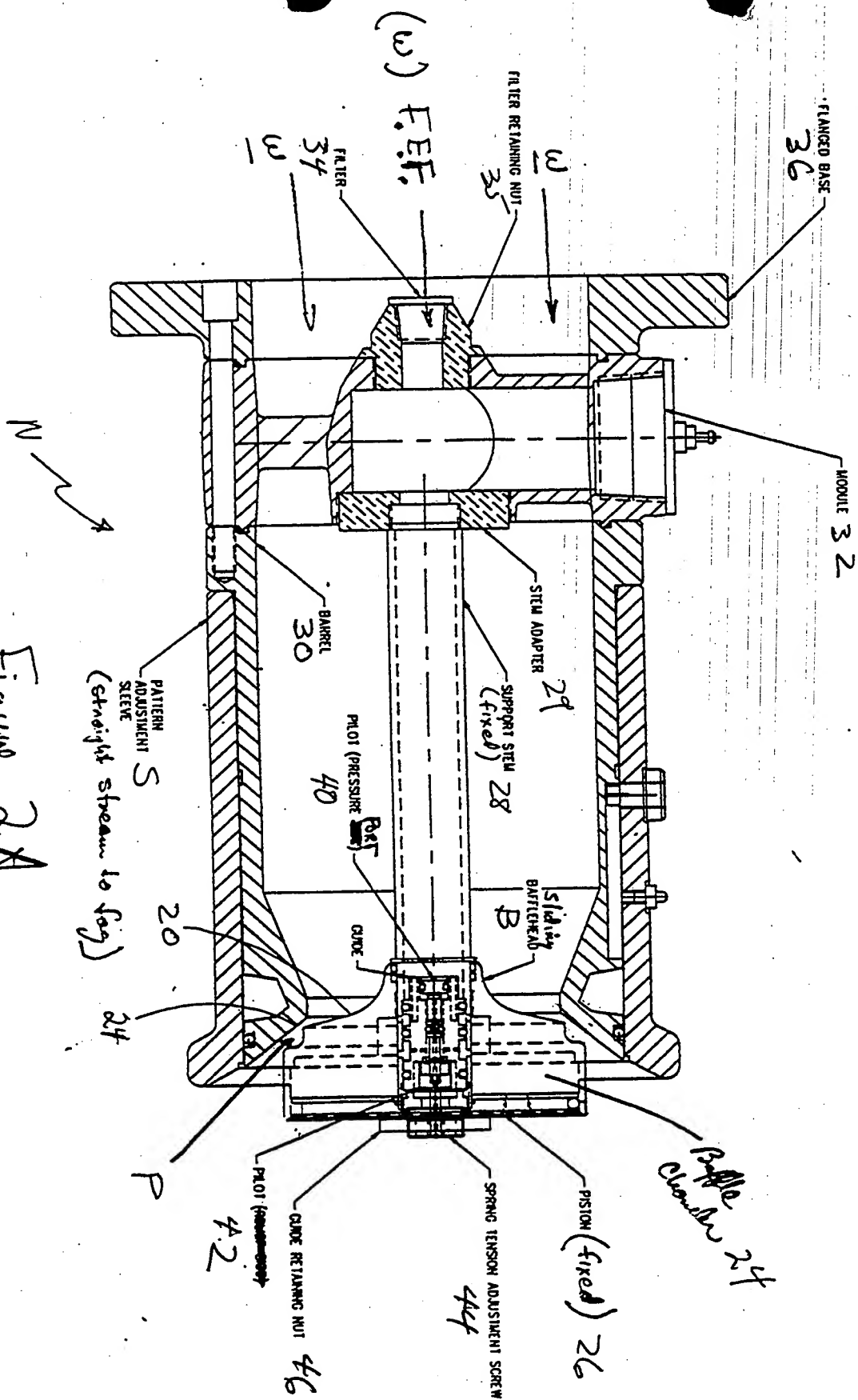


Figure 2A

Self Adjusting Nozzle.

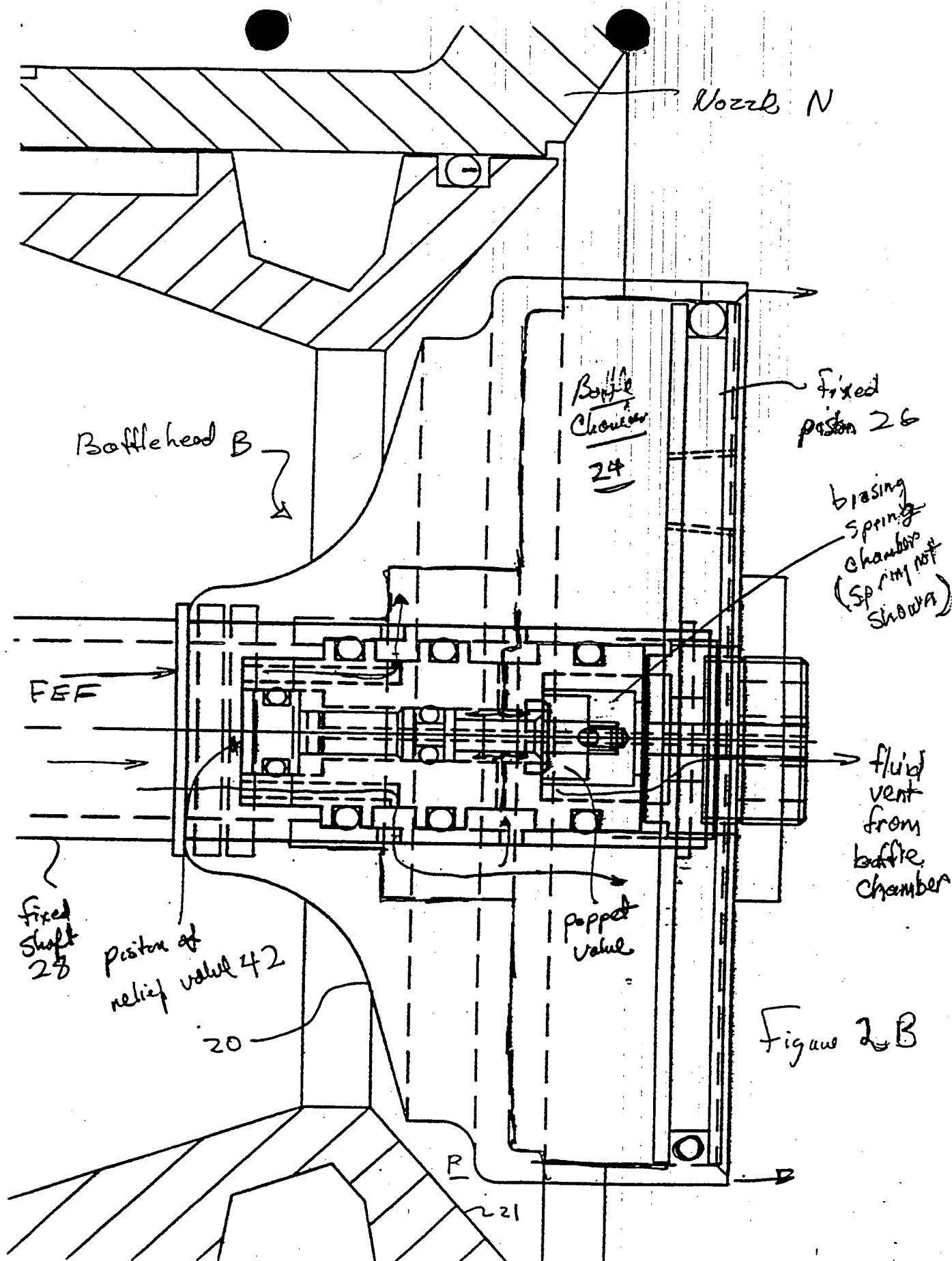
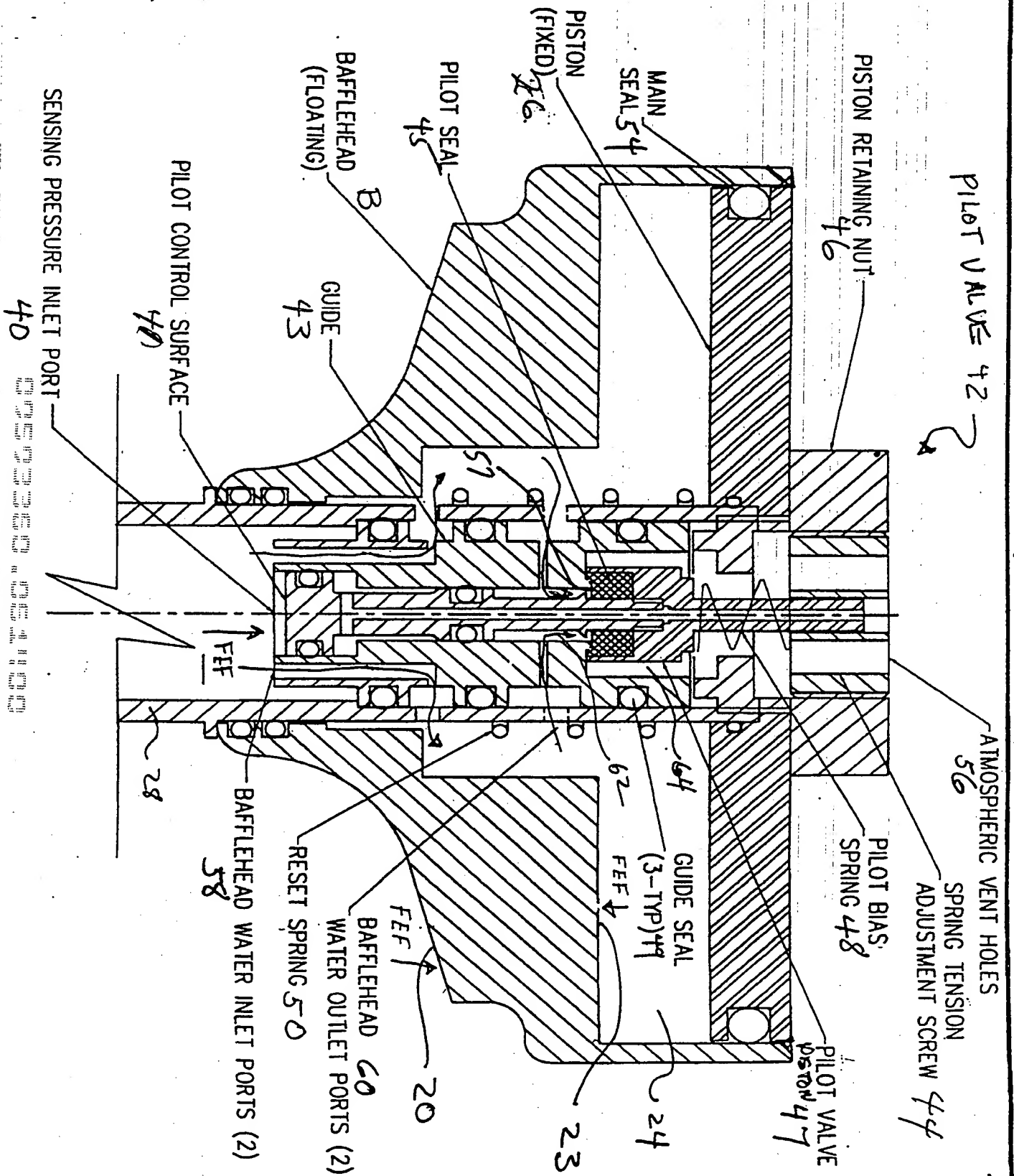


Figure 2B



FLUIDED BLAST
36

AUTOMATIC NOZZLE WATER ONLY

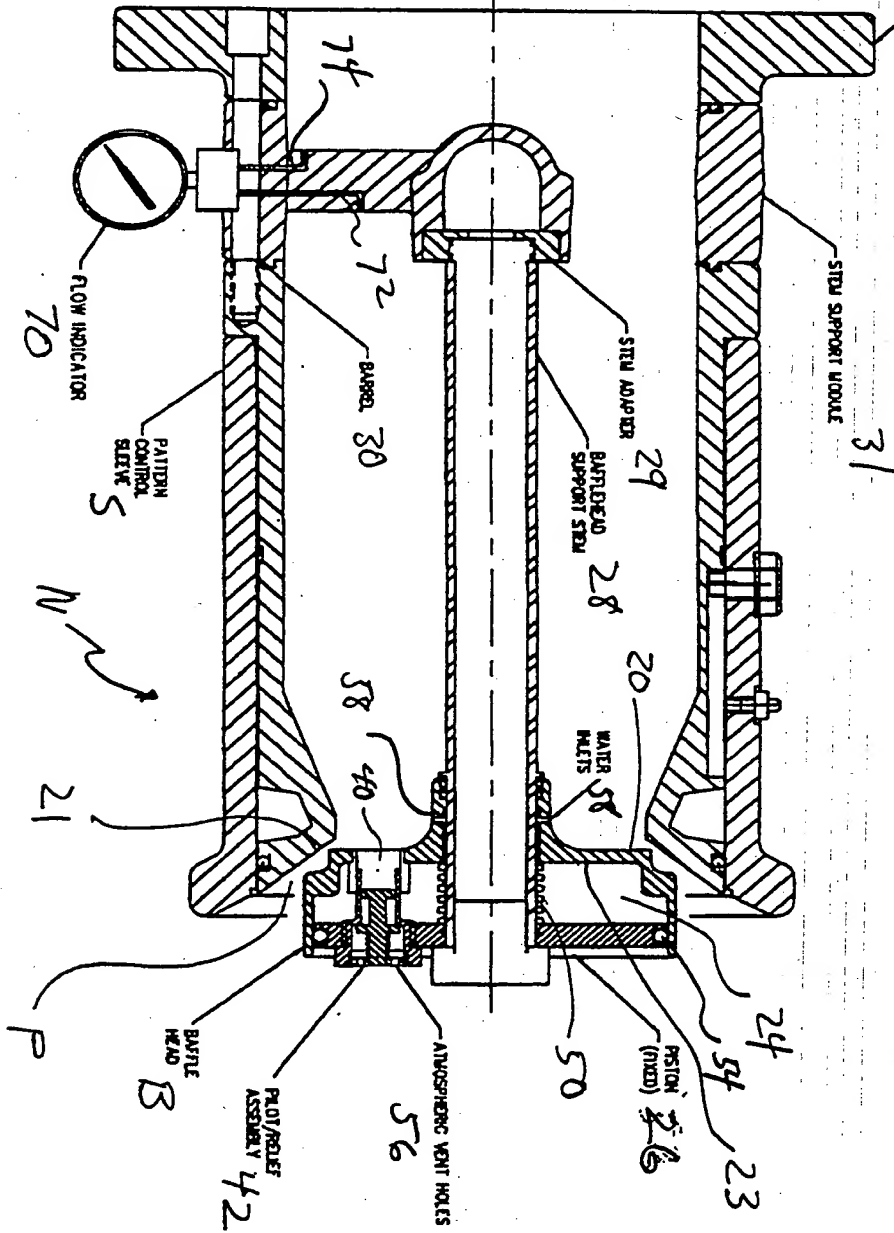
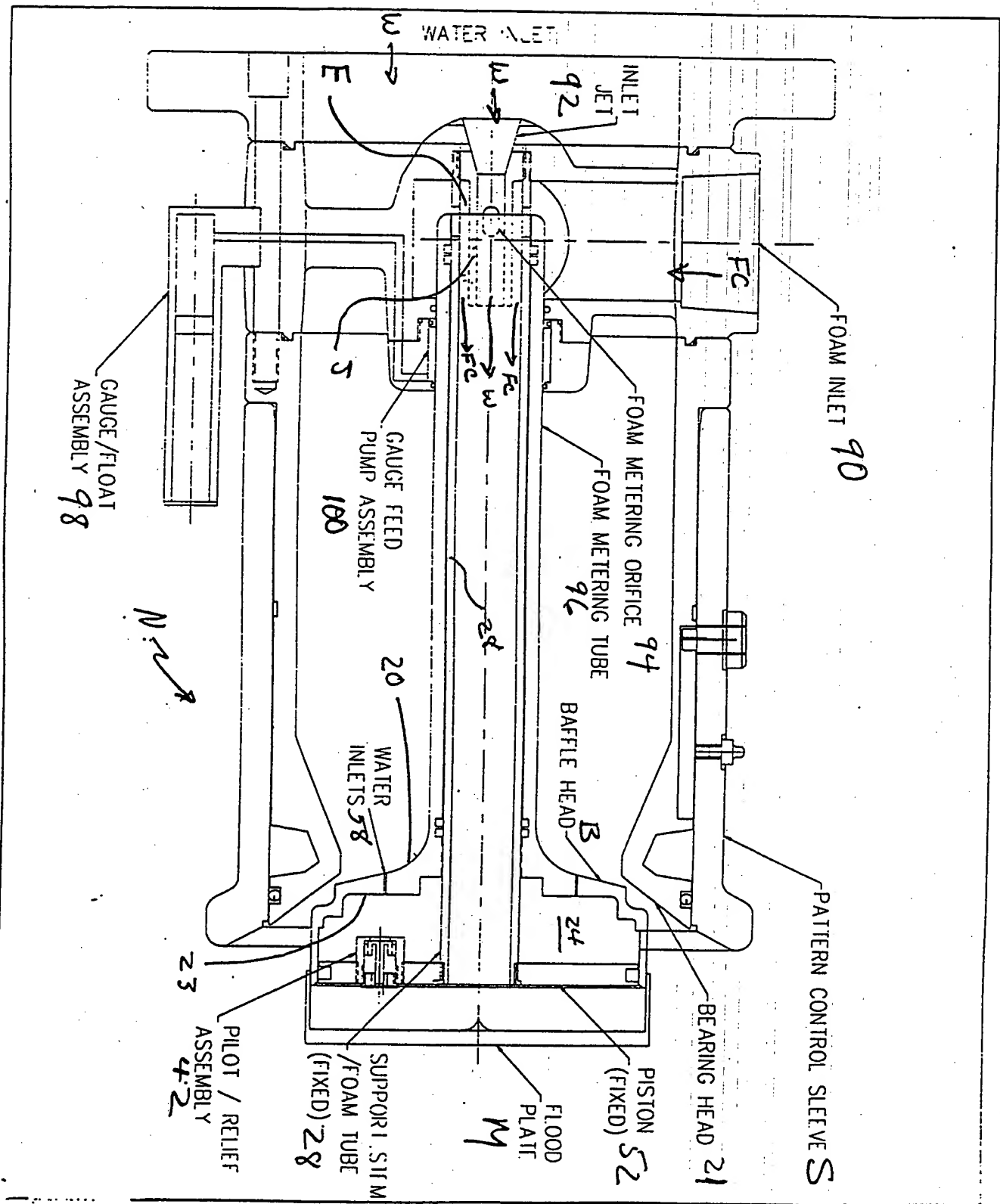


Fig 2D



PREFERRED DESIGN

Figure 3A

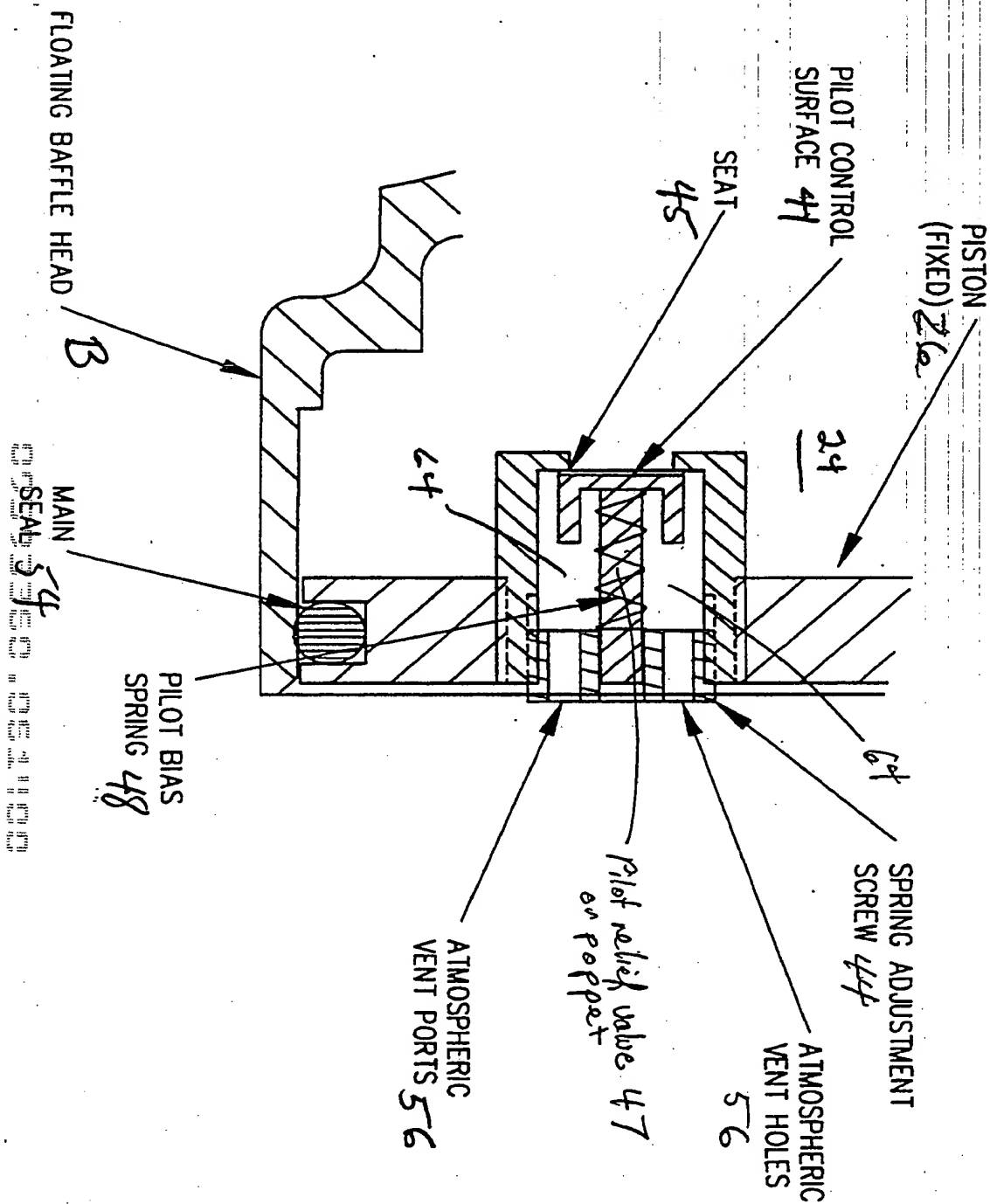


Fig 3B

Fig 3C

AUTOMATIC NOZZLE
FOAM ONLY
PERIPHERAL DISCHARGE

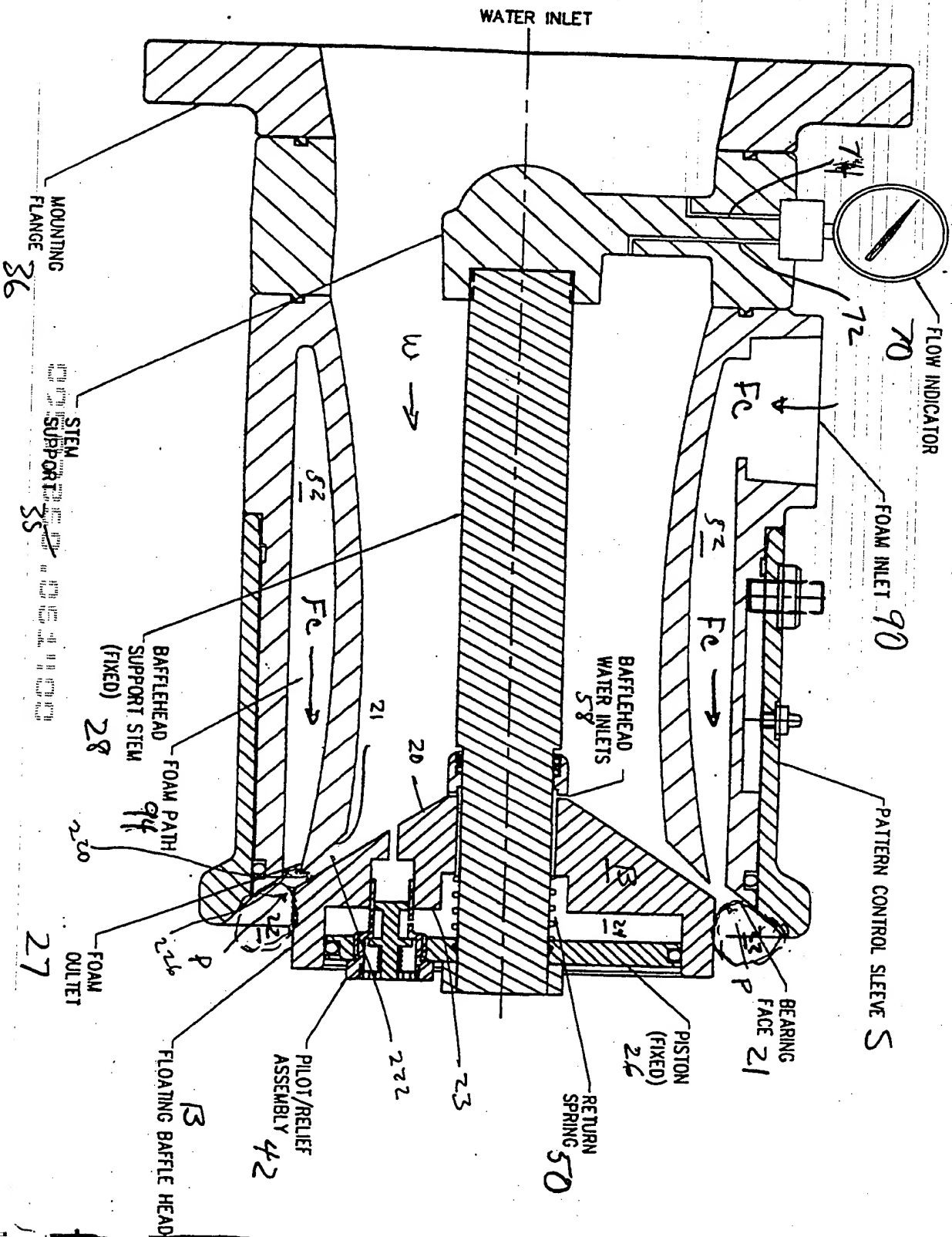


Fig 3A

AUTOMATIC NOZZLE FOAM ONLY CENTRAL DISCHARGE

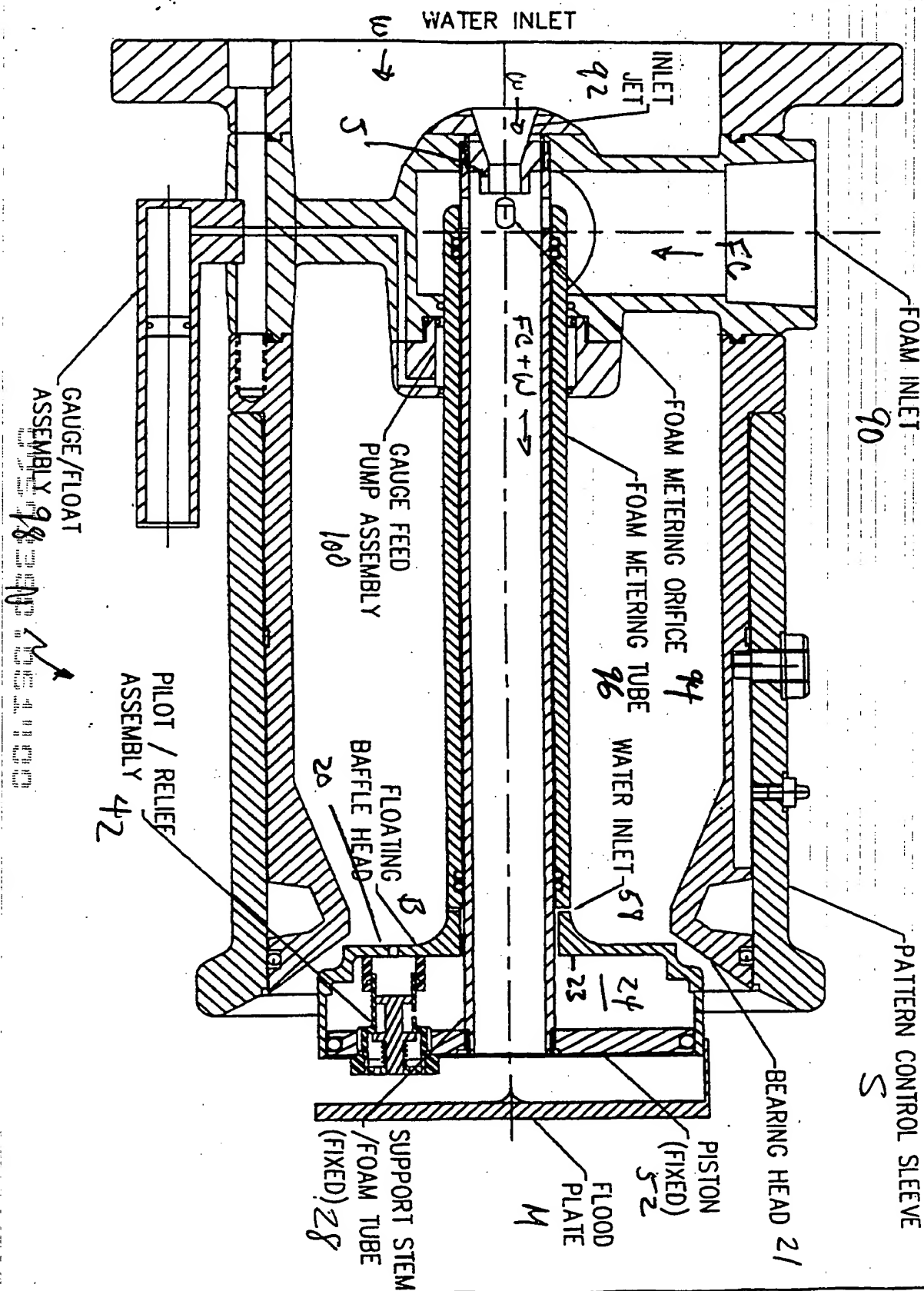
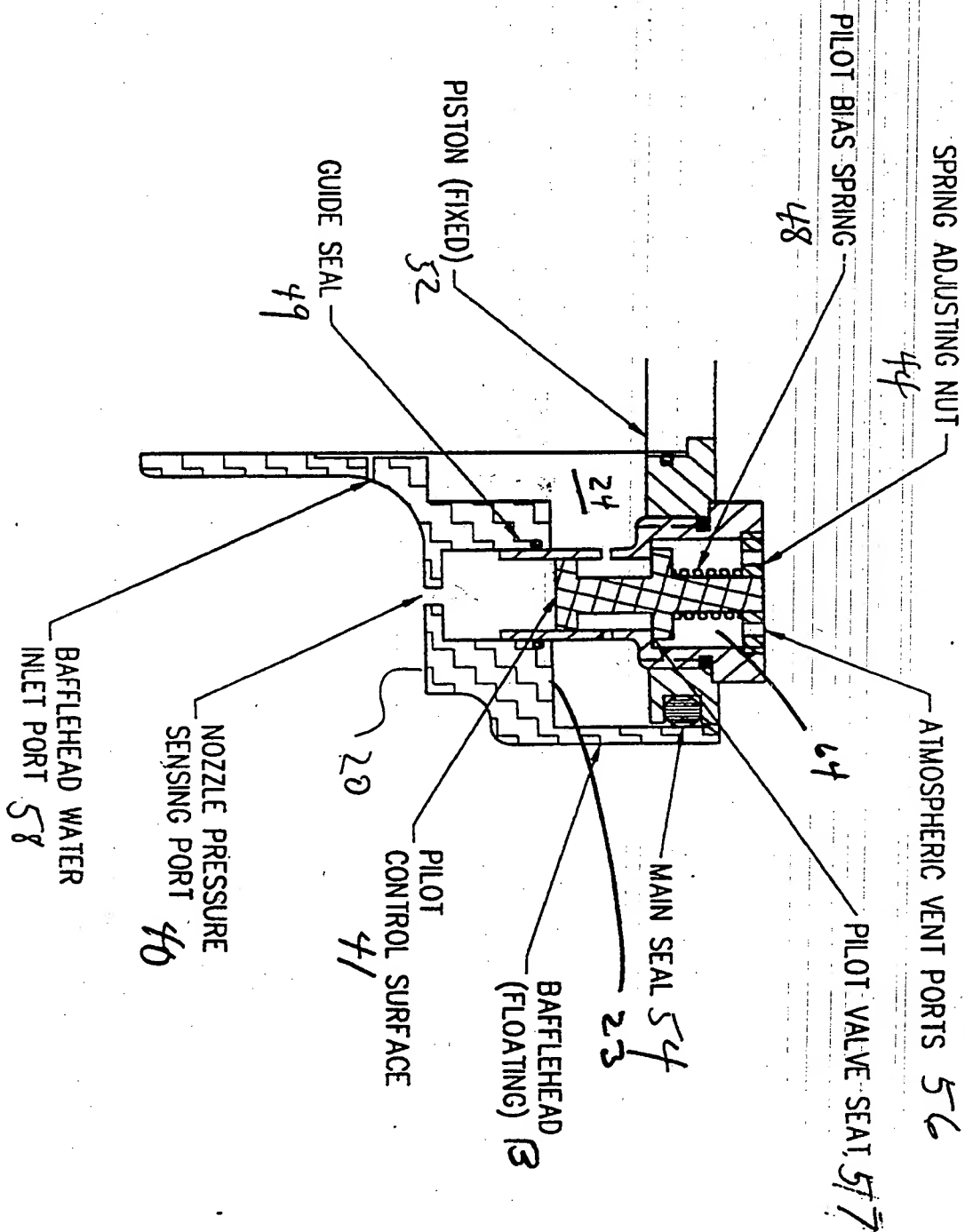


Fig. 3E



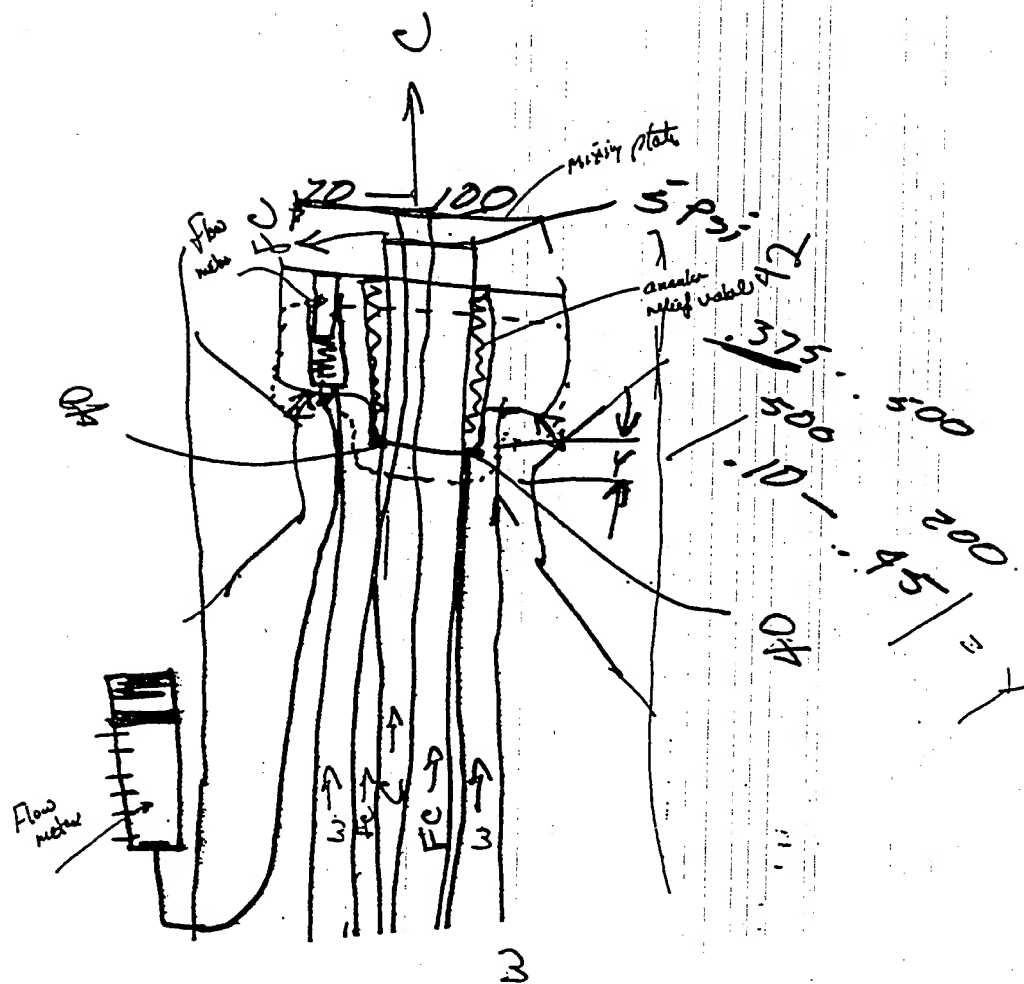


Figure 4A

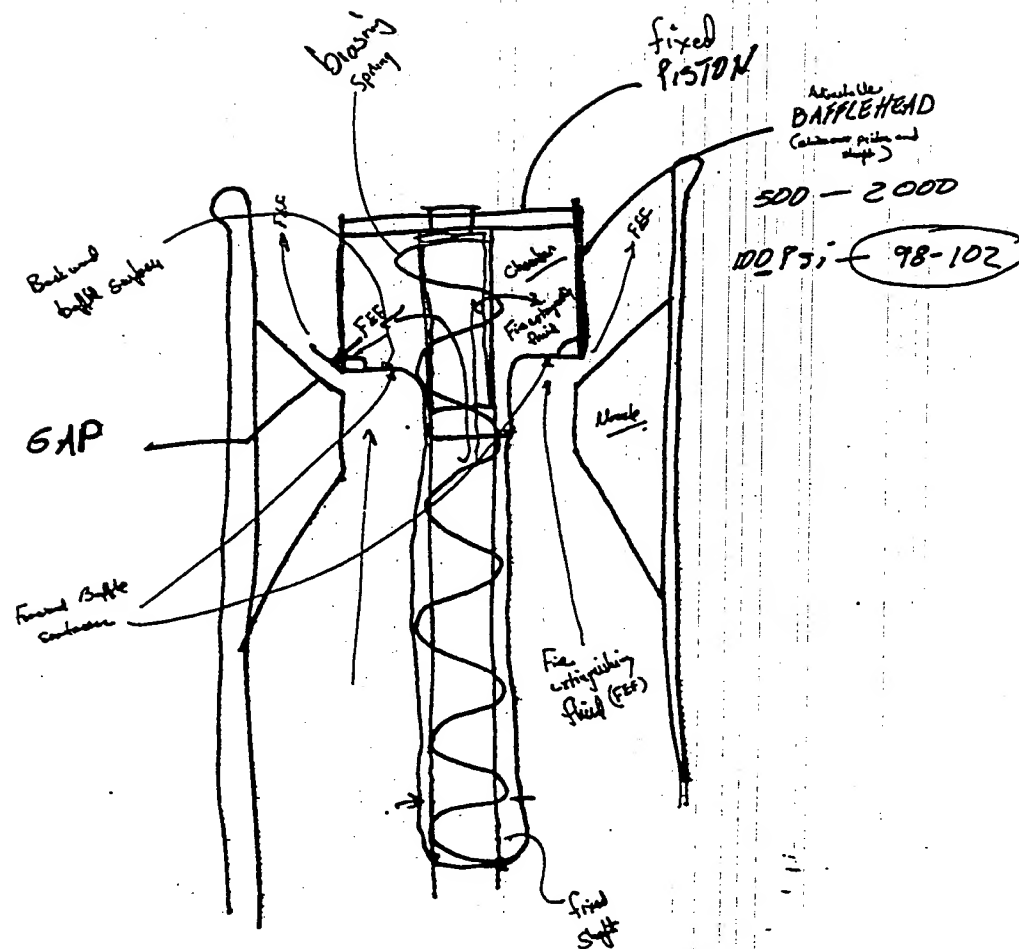


Figure 4B

Fig 4C

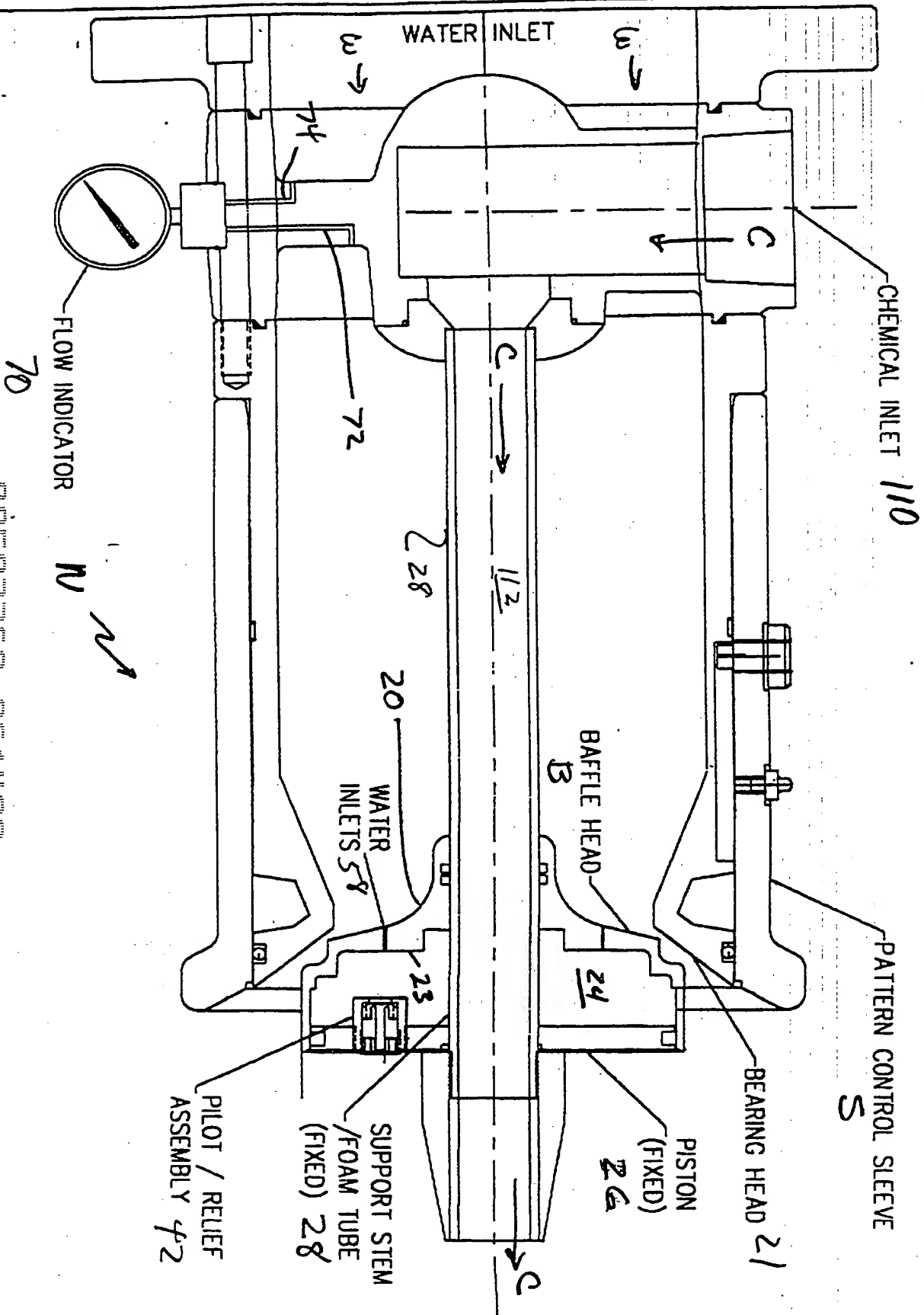
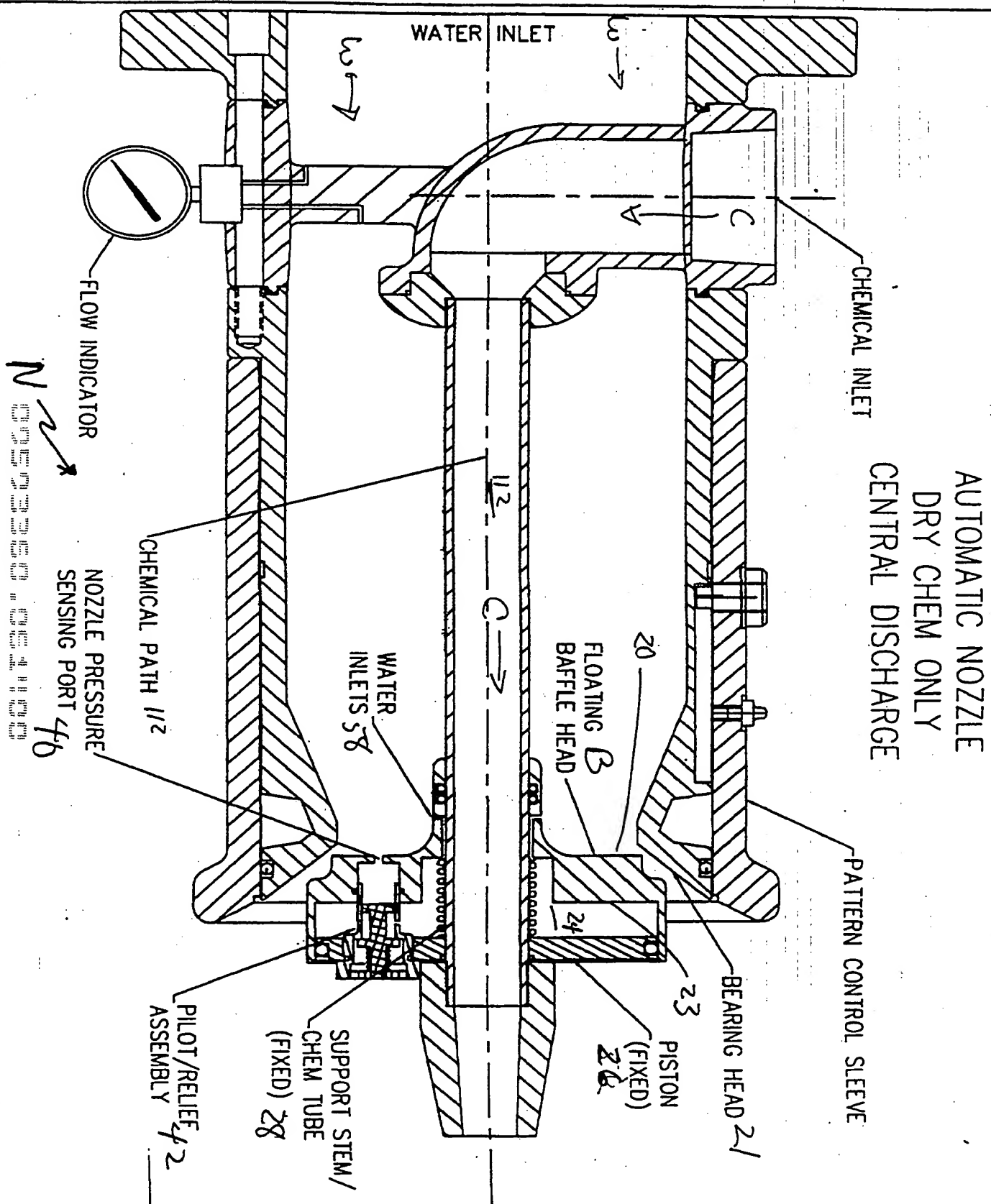
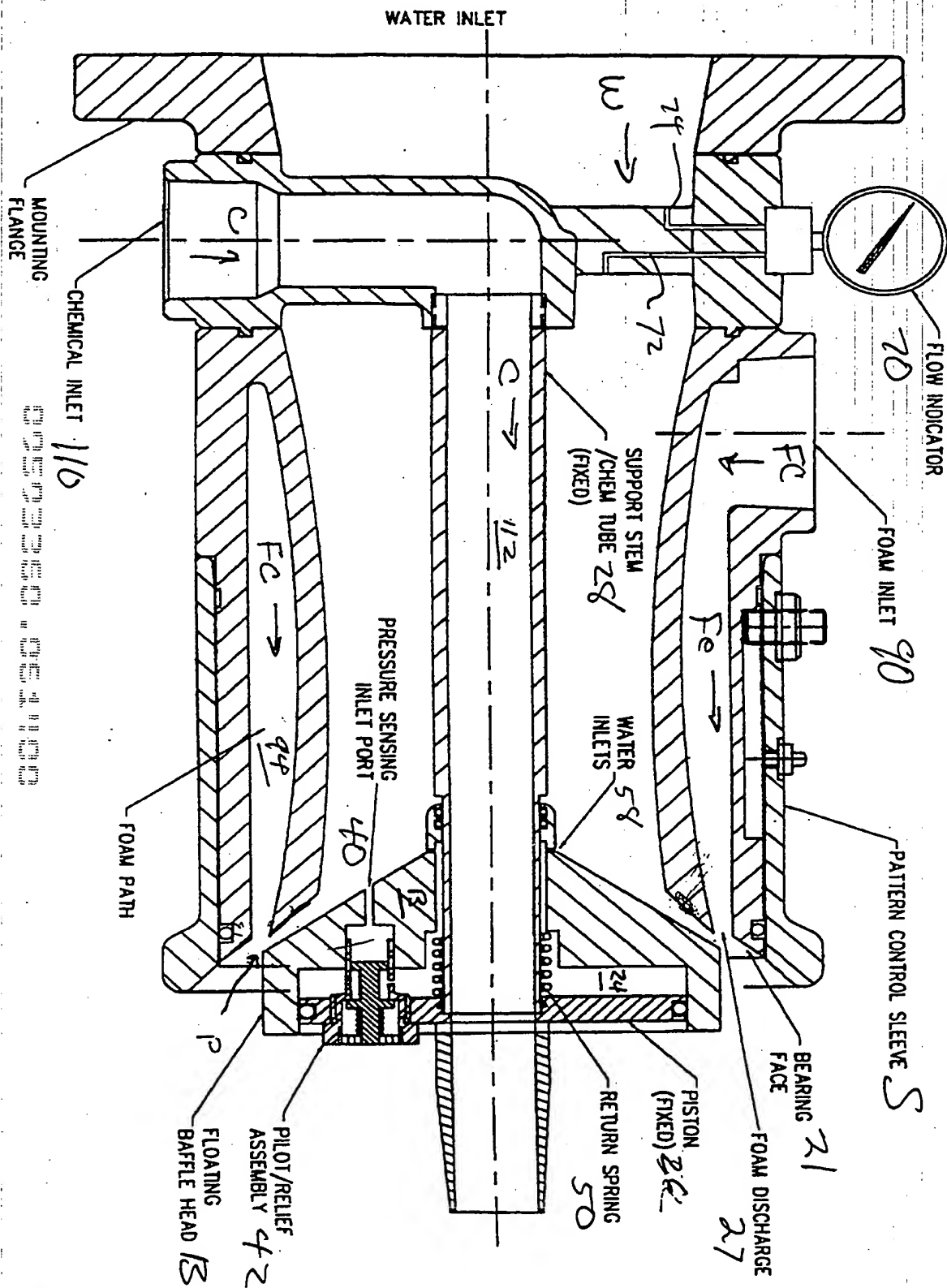


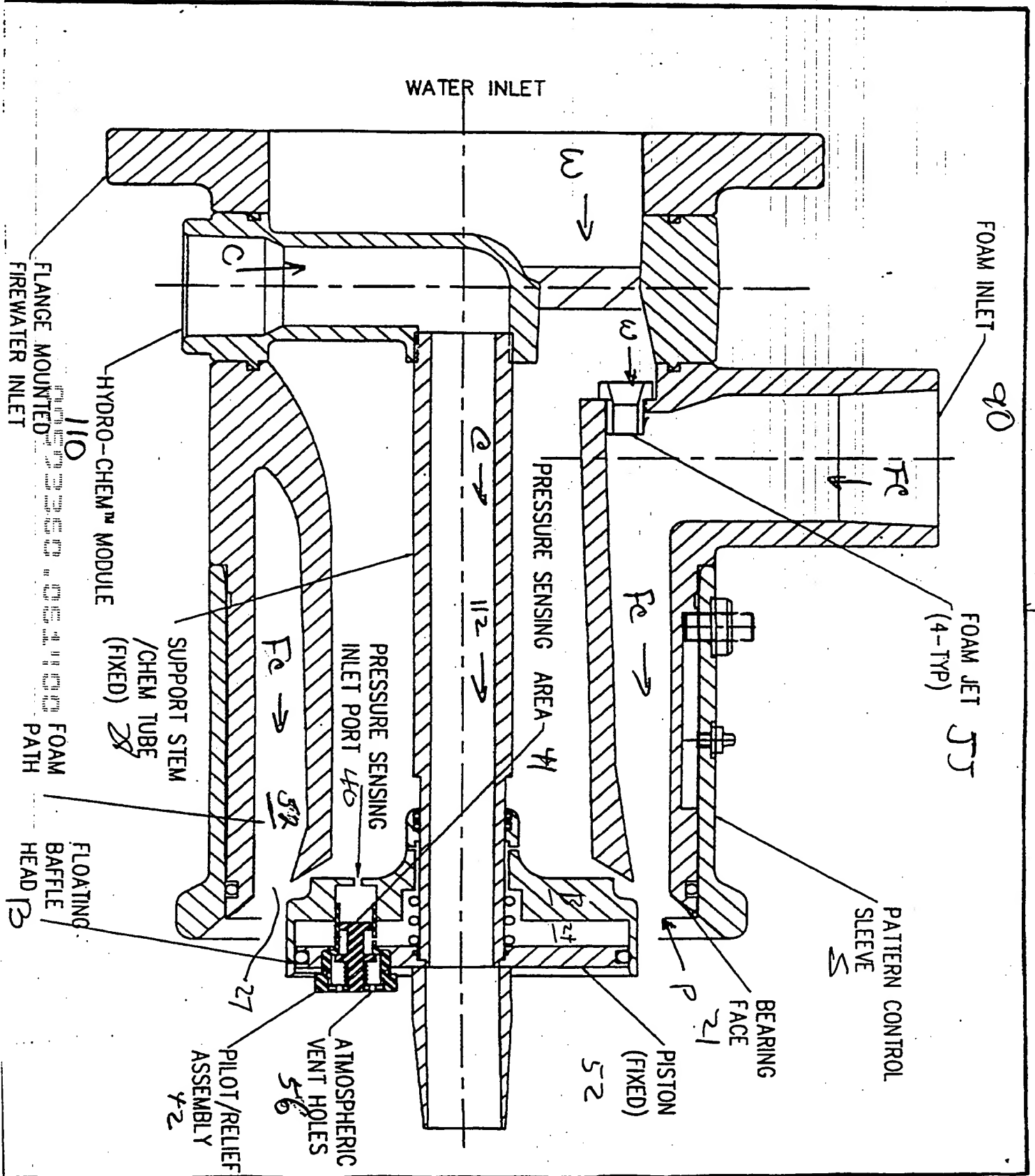
Fig 4 D



AUTOMATIC NOZZLE FOAM PERIPHERAL DRY CHEMICAL CENTRAL

Fig. 5A





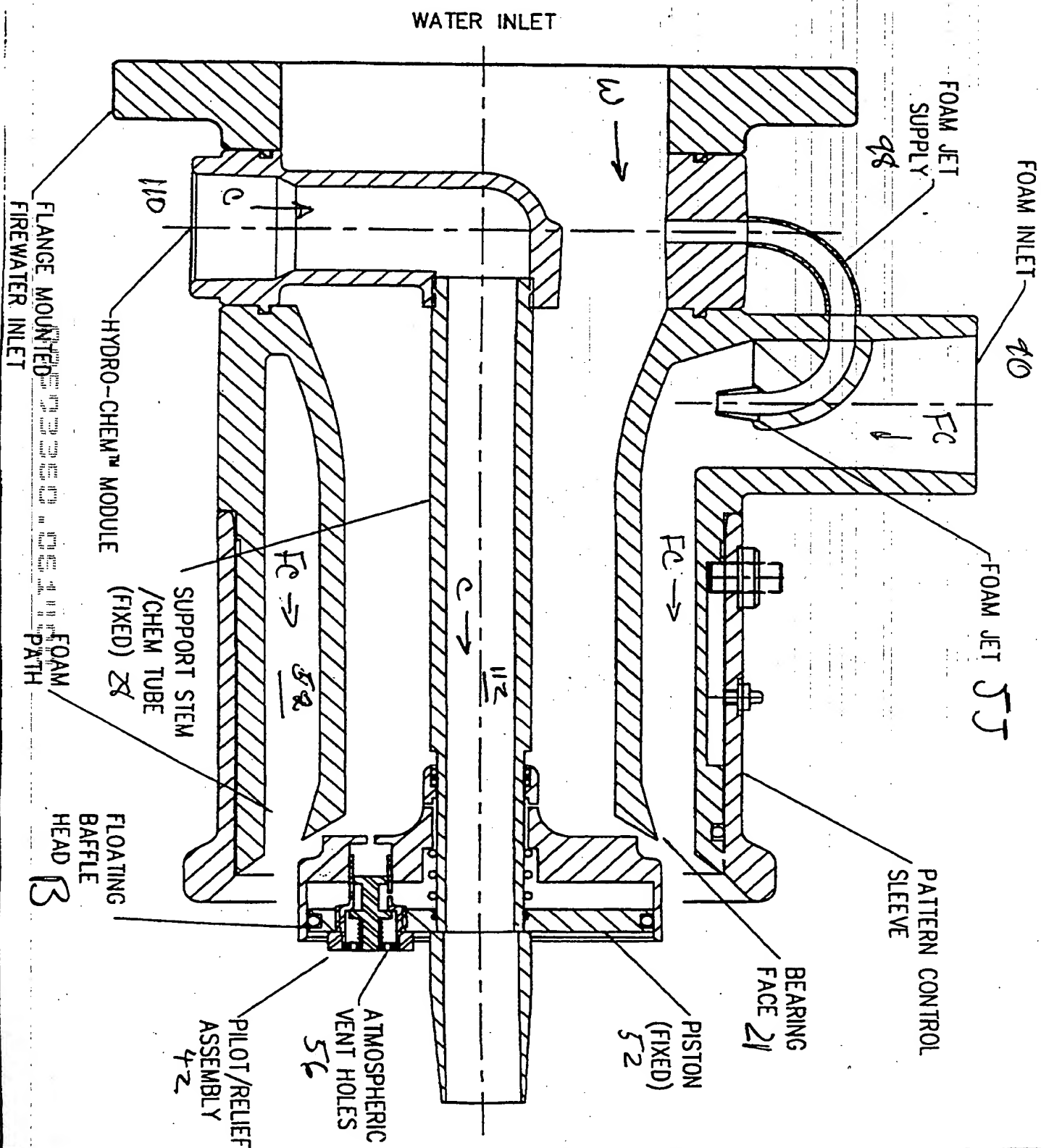
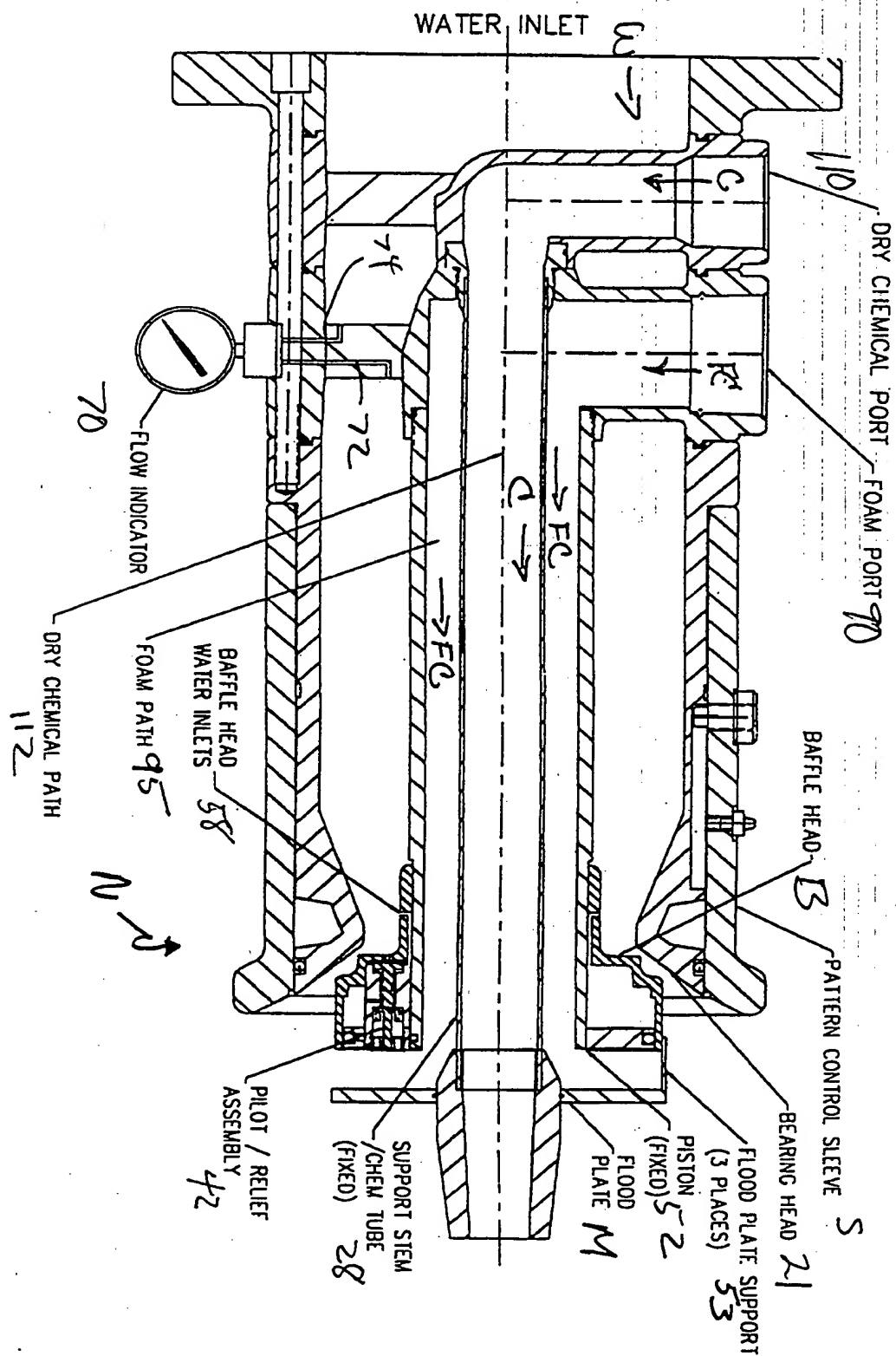


Fig 5C

**AUTOMATIC NOZZLE
FOAM & DRY CHEMICAL
CENTRAL DISCHARGE**



FLOW INDICATOR

FOAM JET
(1 MP-4)
260

FOAM INLET
90

PATTERN CONTROL SLEEVE
S

BEARING
FACE
21

PISTON
(FIXED)
26

RETURN
SPRING
50

WATER INLET

BAFFLEHEAD
WATER INLETS
68

260

PILOT/RELIEF
ASSEMBLY
42

FLOATING BAFFLE HEAD
8

FOAM PATH
322

BAFFLEHEAD
SUPPORT STEM
(FIXED)
28

FOAM
OUTLET
27

STEM

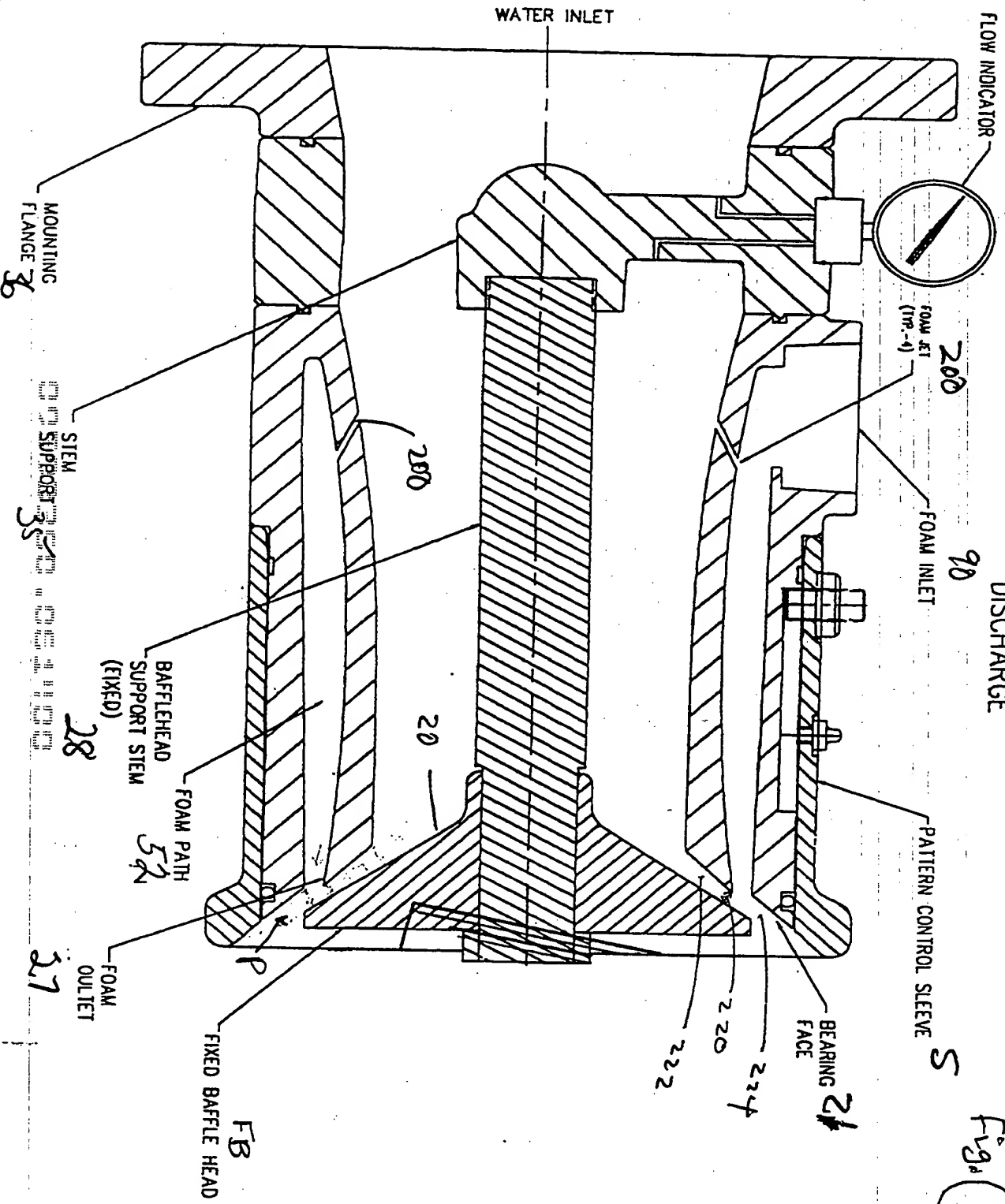
SUPPORT
385

MOUNTING
FLANGE
36

Fig. 7

FIXED GALLONAGE NOZZLE
FOAM ONLY
ENHANCED PERIPHERAL
DISCHARGE

Fig. 8



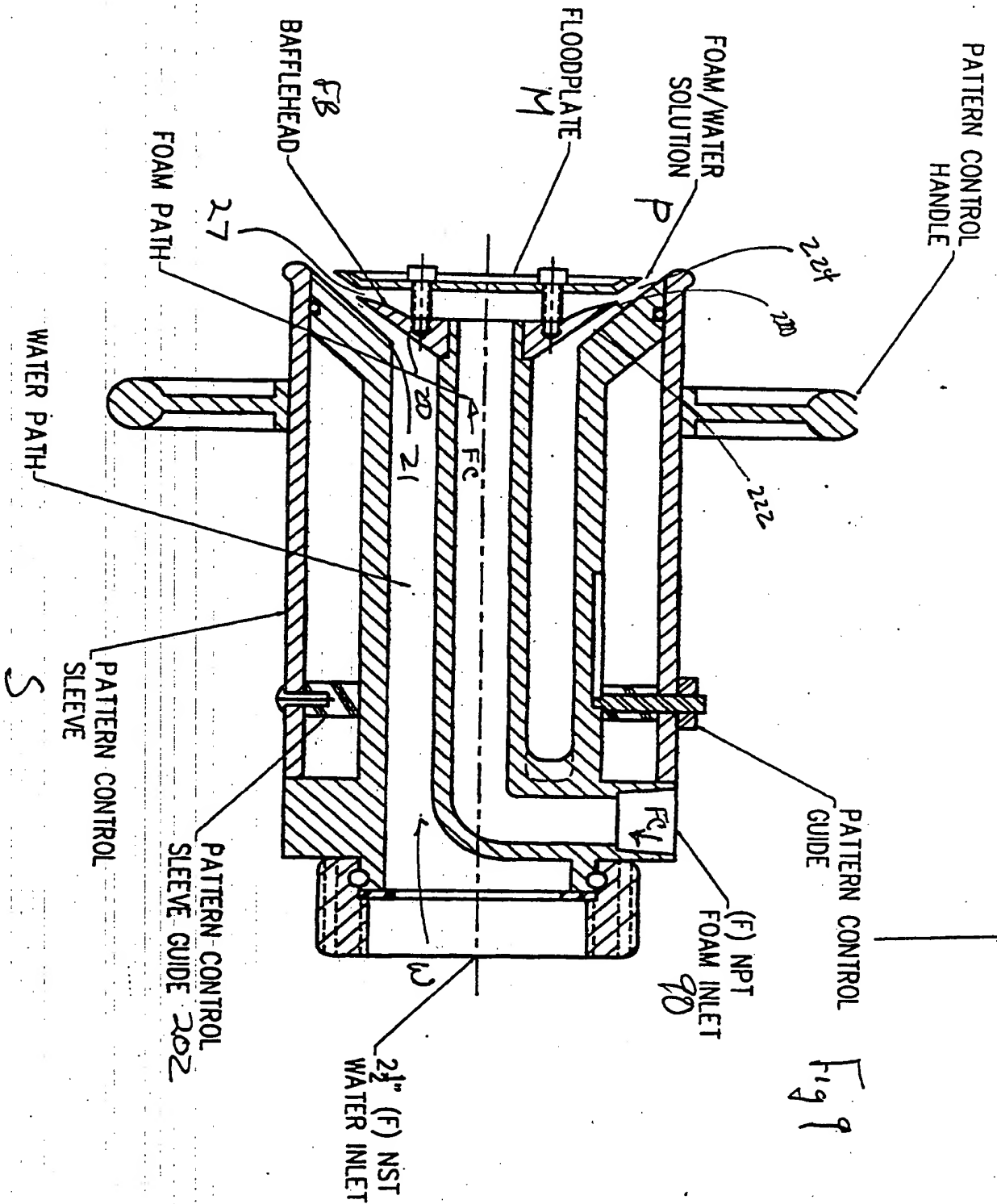
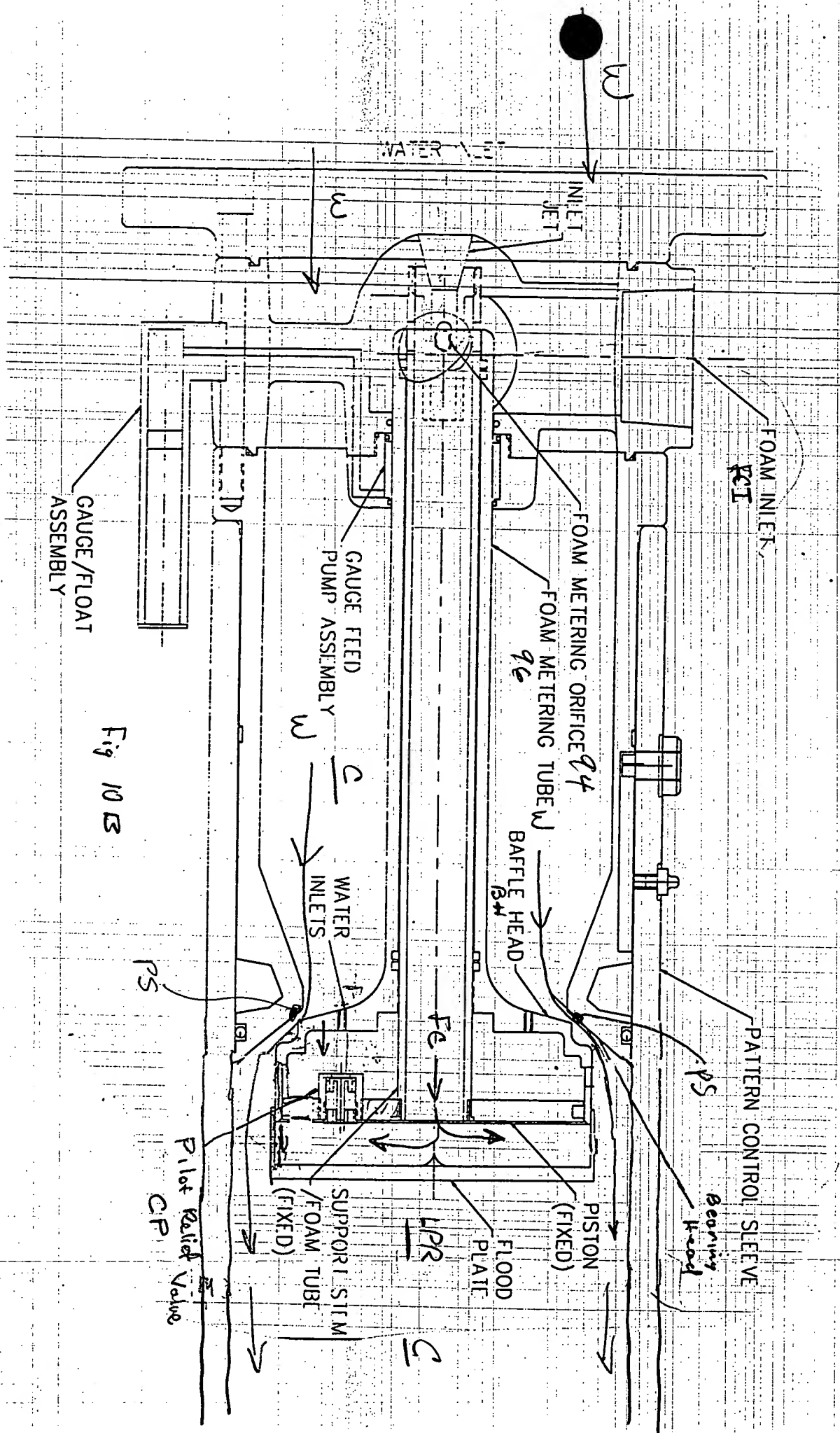
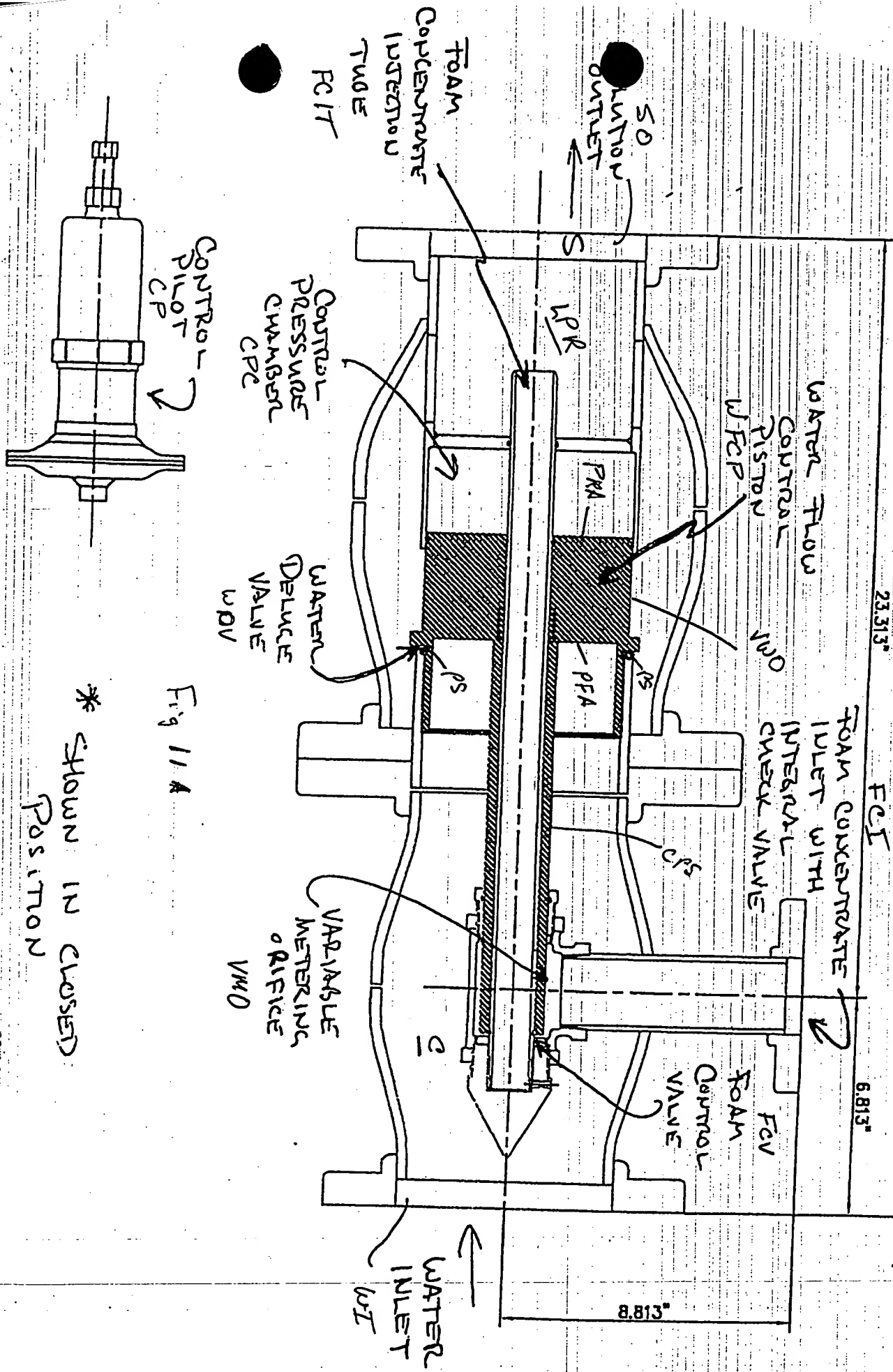
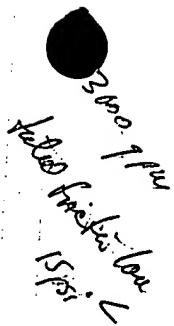


Fig 1







* SHOW IN OPEN POSITION

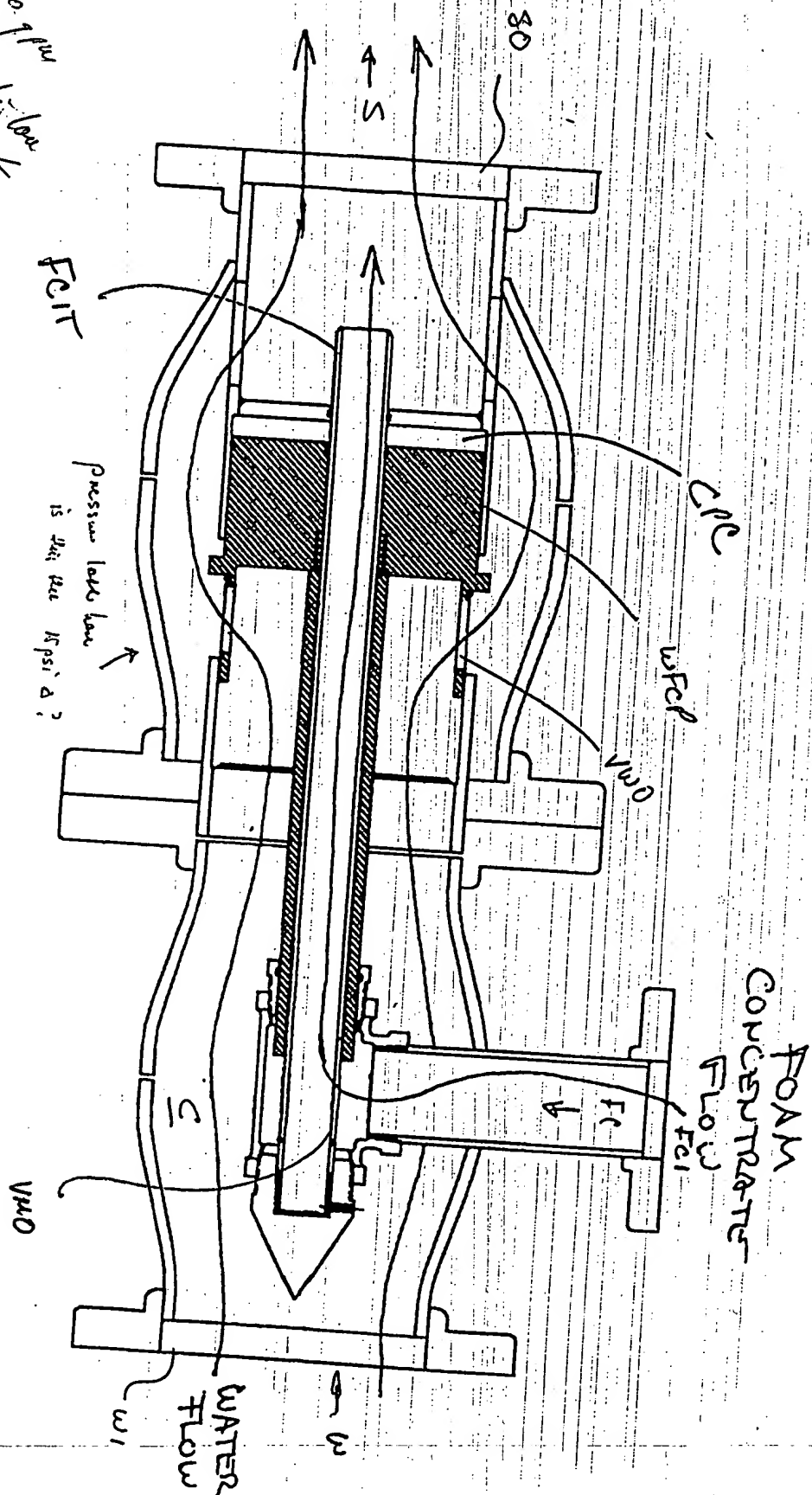


Fig 11 B

FD-111

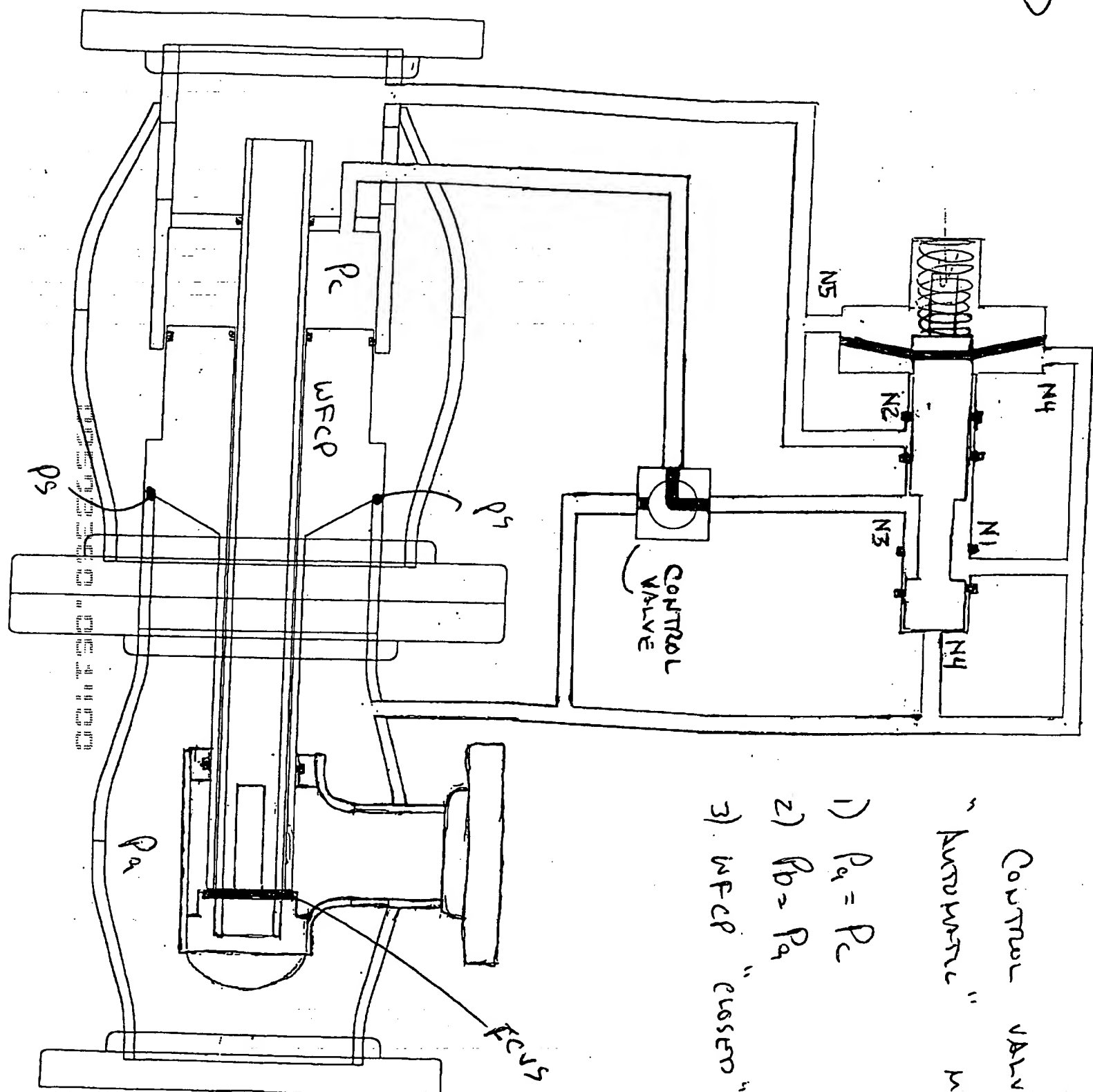


Fig. 11E

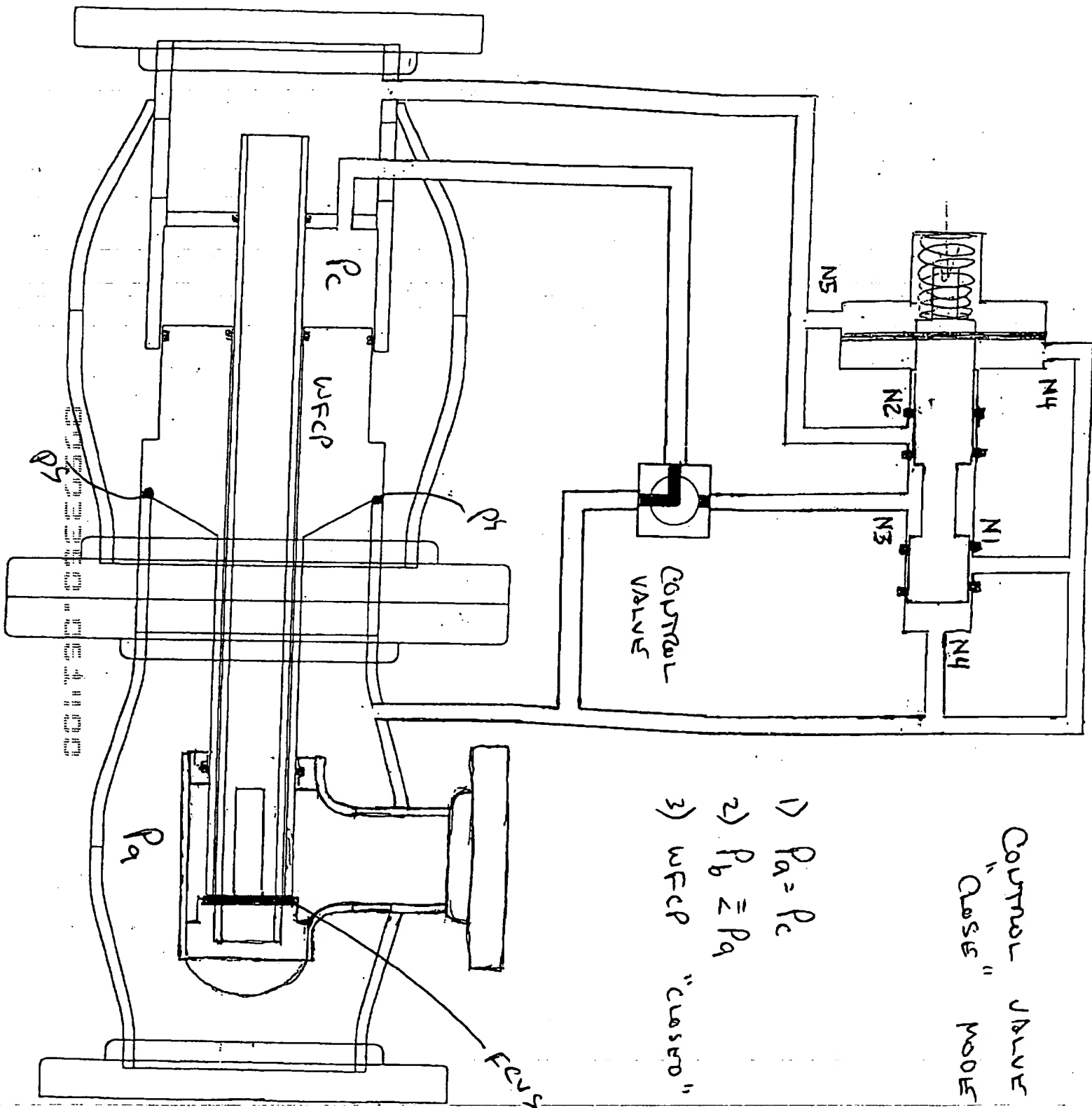
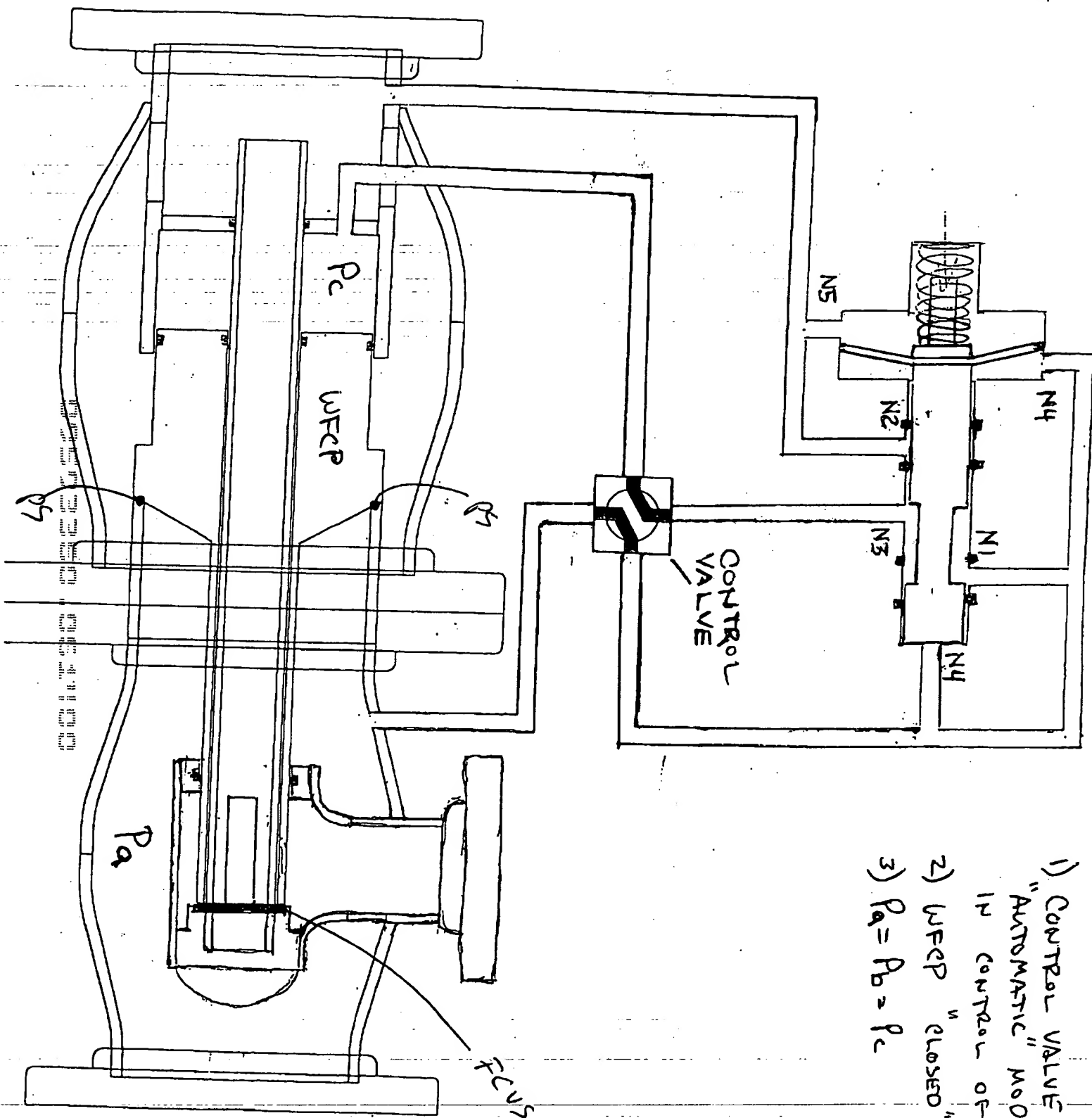


Fig. 11 F



- 1) CONTROL VALVE IN "AUTOMATIC" MODE - PILOT IN CONTROL OF WFCP
- 2) WFCP "CLOSED"
- 3) $P_a = P_b = P_c$

Fig. 116

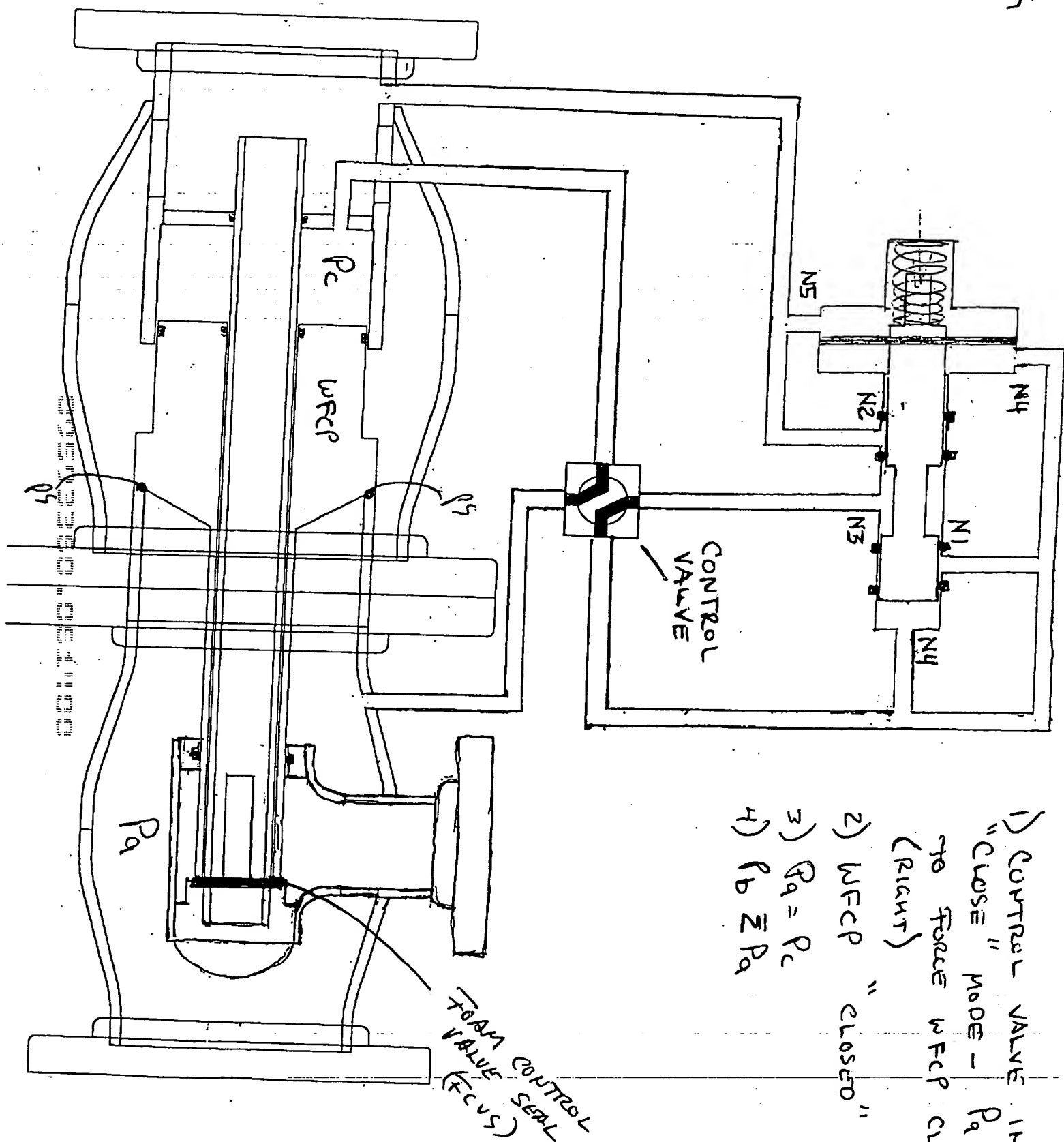
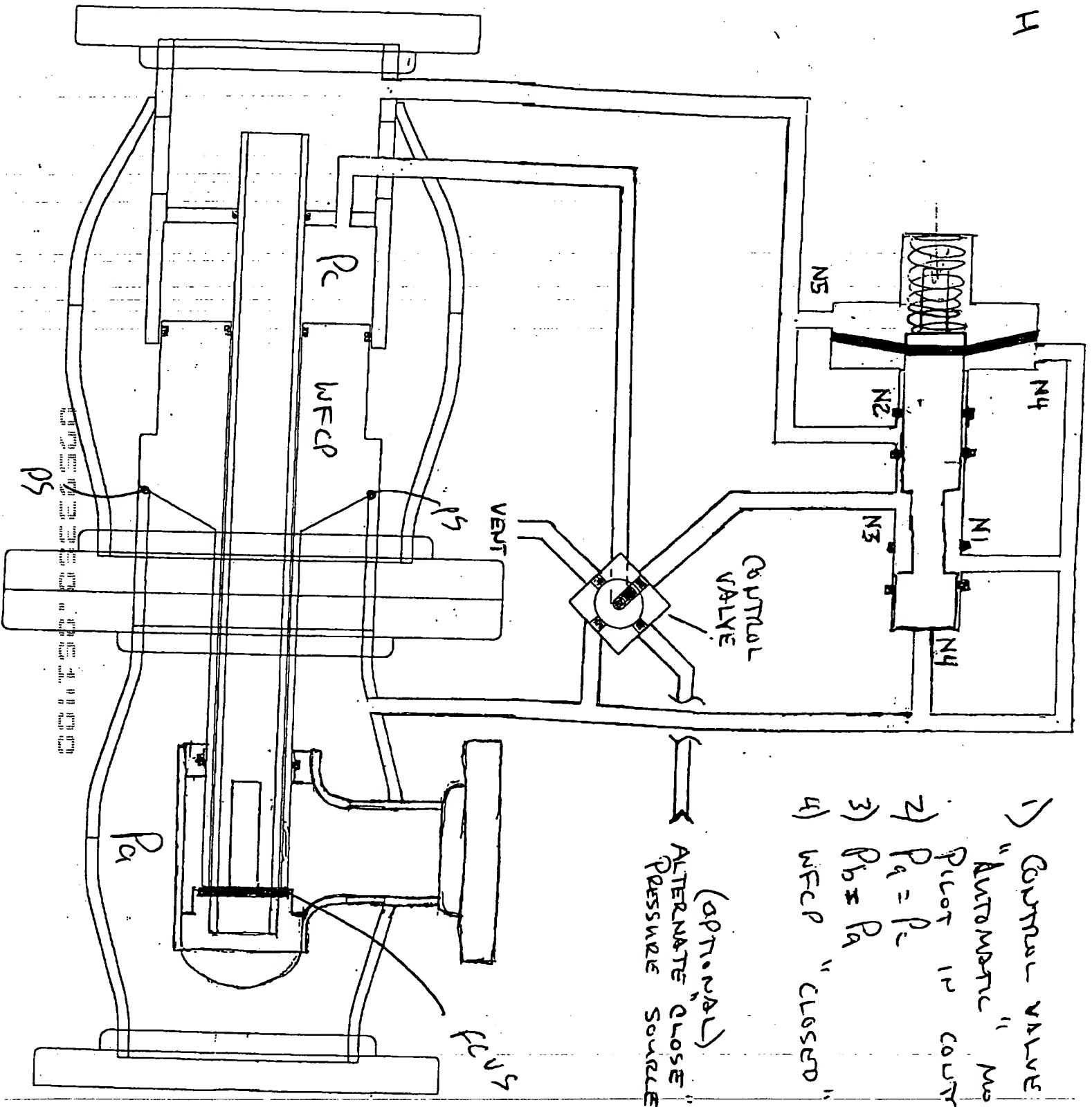


FIG. 11 H



- 1) Control valve in "Automatic" mode - Pilot in control
- 2) $P_a = P_c$
- 3) $P_b \neq P_a$
- 4) WFCP "CLOSED"